

**NCEI** **Entrez** **Protein QUERY** **BLAST** **Entrez** **?**

**Other Formats:****FASTA****Graphic****Links:****MEDLINE****DNA****Related Sequences**

LOCUS 2190043 448 aa 15-APR-1998  
 DEFINITION presenilin-2.  
 ACCESSION 2190043  
 PID g2190043  
 DBSOURCE DDBJ: locus AB004454, accession AB004454  
 KEYWORDS  
 SOURCE Norway rat.  
 ORGANISM Rattus norvegicus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 REFERENCE 1 (sites)  
 AUTHORS Tanahashi, H. and Tabira, T.  
 TITLE Cloning of the cDNA encoding rat presenilin-2  
 JOURNAL Biochim. Biophys. Acta 1396 (3), 259-262 (1998)  
 MEDLINE 98207716  
 REFERENCE 2 (residues 1 to 448)  
 AUTHORS Tanahashi, H.  
 TITLE Direct Submission  
 JOURNAL Submitted (28-MAY-1997) to the DDBJ/EMBL/GenBank databases. Hiroshi  
 Tanahashi, National Institute of Neuroscience, Division of  
 Demyelinating Disease and Aging; 4-1-1 Ogawahigashi, Kodaira, Tokyo  
 187, Japan (E-mail: tanahash@ncnaxp.ncnp.go.jp, Tel: 81-423-41-1717,  
 Fax: 81-423-46-1747)  
 COMMENT Sequence updated (06-Jun-1997)  
 Sequence updated (08-Jun-1997).  
 FEATURES Location/Qualifiers  
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 CDS 1..448  
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 181 flftyiylge vfktynvamd yptlflavwn fgavgmvcih wkgplvlqqa ylivisalma  
 241 lvfikylpew sawvilgais vydlvavlcp kgplrlmlvet aqernepifp aliyssamvw  
 301 tvgmakldps sggalqlpyd pemeedsyds fgepsypeaf eapqpgypge epeeeeergv  
 361 klglgdfify svlvgkaa at gngdwsttla cfiaailiglc ltlilllavfk kalpalpisi  
 421 tfglifyfst dnlvrpfmt lashqli

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NCBI	Entrez	Protein QUERY	BLAST	Entrez	?
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## Other Formats:

FASTA

Graphic

## Links:

MEDLINE

Related Sequences

LOCUS 3123257 448 aa 15-JUL-1998  
 DEFINITION PRESENILIN 2 (ALG-3) (ALZHEIMER DISEASE 4 HOMOLOGUE).  
 ACCESSION 3123257  
 PID g3123257  
 DBSOURCE SWISS-PROT: locus PSN2\_MOUSE, accession O61144  
 class: standard.  
 extra accessions: P97935, P97934, created: Nov 1, 1997.  
 sequence updated: Jul 15, 1998.  
 annotation updated: Jul 15, 1998.  
 xrefs: gi: 1710118, gi: 1710119, gi: 2315275, gi: 2315276, gi: 1213517, gi: 1213518  
 xrefs (non-sequence databases): MGD MGI:109284  
 KEYWORDS TRANSMEMBRANE; ALTERNATIVE INITIATION.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;  
 Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (residues 1 to 448)  
 AUTHORS Vito, P., Wolozin, B., Ganjei, J.K., Iwasaki, K., Lacana, E. and D'Adamio, L.  
 TITLE Requirement of the familial Alzheimer's disease gene PS2 for apoptosis. Opposing effect of ALG-3  
 JOURNAL J. Biol. Chem. 271 (49), 31025-31028 (1996)  
 MEDLINE 97094860  
 REMARK SEQUENCE FROM N.A.  
 TISSUE=LIVER  
 REFERENCE 2 (residues 1 to 448)  
 AUTHORS Vito, P., Lacana, E. and D'Adamio, L.  
 TITLE Interfering with apoptosis: Ca(2+)-binding protein ALG-2 and Alzheimer's disease gene ALG-3  
 JOURNAL Science 271 (5248), 521-525 (1996)  
 MEDLINE 96152375  
 REMARK SEQUENCE OF 340-448 FROM N.A.  
 TISSUE=LIVER  
 COMMENT On May 8, 1998 this sequence version replaced gi: 2498816.  
 [FUNCTION] MAY PLAY A ROLE IN INTRACELLULAR SIGNALING AND GENE EXPRESSION OR IN LINKING CHROMATIN TO THE NUCLEAR MEMBRANE. MAY FUNCTION IN THE CYTOPLASMIC PARTITIONING OF PROTEINS (BY SIMILARITY).  
 [SUBCELLULAR LOCATION] INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).  
 [TISSUE SPECIFICITY] UBIQUITOUSLY EXPRESSED, MOSTLY IN THE LIVER.  
 [ALTERNATIVE PRODUCTS] TWO FORMS OF THE PROTEIN, PS-2 AND PS2-SHORT, MAY BE PRODUCED BY THE USE OF ALTERNATIVE INITIATION SITES.  
 [SIMILARITY] STRONG, TO OTHER MAMMALIAN PRESENILINS. SOME, TO C.ELEGANS SPE-4.  
 FEATURES Location/Qualifiers  
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 Region 1..448  
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 Protein 1..448  
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 Region 88..106  
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 Region 142..160  
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 Region 167..188

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## ORIGIN

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181 flftyiylge vlktynvamd yptlflavwn fgavgmvcih wkgplalqqa ylivisalma
241 lvfikylpew sawvilgais vydlvavlcg kgplrmlvet aqernepifp aliyssamvw
301 tvgmakldps sqgalqlpyd pemeedsyds fgepsypeaf eaplpgygpe eleeeeeergv
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